

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4711649

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| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT  |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT  |
| <b>CONVEYING PARTY DATA</b>   |   |
| <b>Name</b>   | <b>Execution Date</b>                                     |
| DANIEL B. PENNEY  | 11/28/2017  |
| DAVID R. BROWN  | 11/28/2017  |
| GARY L. HOWE  | 11/28/2017  |
| <b>RECEIVING PARTY DATA</b>   |   |
| <b>Name:</b>  | Micron Technology, Inc.                                   |
| <b>Street Address:</b>  | 8000 S. Federal Way                                       |
| <b>City:</b>  | Boise   |
| <b>State/Country:</b>   | IDAHO   |
| <b>Postal Code:</b>   | 83707-0006  |
| <b>PROPERTY NUMBERS Total: 1</b>  |   |
| <b>Property Type</b>  | <b>Number</b>   |
| Application Number:   | 15826236  |
| <b>CORRESPONDENCE DATA</b>  |   |
| <b>Fax Number:</b>  | (281)970-4503   |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> |   |
| <b>Phone:</b>   | 281-970-4545  |
| <b>Email:</b>   | manware@fyiplaw.com, yepez@fyiplaw.com, jacob@fyiplaw.com |
| <b>Correspondent Name:</b>  | ROBERT A. MANWARE   |
| <b>Address Line 1:</b>  | PO BOX 692289   |
| <b>Address Line 4:</b>  | HOUSTON, TEXAS 77269-2289                                 |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 2017-0468.0_MICS:0427                                     |
| <b>NAME OF SUBMITTER:</b>   | RICARDO YEPEZ   |
| <b>SIGNATURE:</b>   | /Ricardo Yepez/   |
| <b>DATE SIGNED:</b>   | 11/30/2017  |
| <b>Total Attachments: 4</b>   |   |
| source=2017-0468.00 MICS0427 Assignment#page1.tif   |   |
| source=2017-0468.00 MICS0427 Assignment#page2.tif   |   |
| source=2017-0468.00 MICS0427 Assignment#page3.tif   |   |
| source=2017-0468.00 MICS0427 Assignment#page4.tif   |   |

## ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, does hereby:

SELL, ASSIGN AND TRANSFER to Micron Technology, Inc. (the "Assignee"), a corporation of the State of Delaware, having a place of business at 8000 S. Federal Way, Boise, Idaho 83707-0006, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent, which is entitled "*SYSTEMS AND METHODS FOR IMPROVING WRITE PREAMBLES IN DDR MEMORY DEVICES*," and which may be further identified below; such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST that any attorney associated with PTO Customer No. 52142 may insert additional information identifying this application below after execution of this assignment;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;


COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will (1) execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers; (3) communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; (4) cooperate with the Assignee in any interference, opposition, dispute, or litigation involving any of the applications or patents for such improvements; and (5) generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Additional Application Information

U.S. Provisional Application Serial No. \_\_\_\_\_, filed on \_\_\_\_\_  
U.S. Non-Provisional Application Serial No. 15/826,236, filed on November 29, 2017  
International Application Serial No. \_\_\_\_\_, filed on \_\_\_\_\_

(Signature):



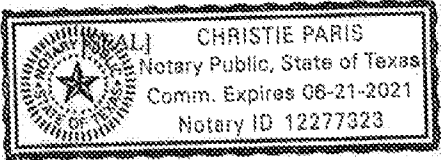
Date:

2017/11/28

Name: Daniel B. Penney

STATE OF Texas §  
COUNTY OF Collin §

BEFORE ME, the undersigned authority, on this 28th day of Nov., 2017, personally appeared Daniel B. Penney, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to in the attached instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity on behalf of which the person(s) acted, executed the instrument of his/her/their own free will for the purposes and consideration therein expressed.

 Christie Paris  
Notary Public, State of Texas  
Comm. Expires 06-21-2021  
Notary ID 12277023

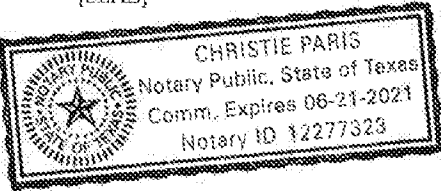
(Signature): David R. Brown  
Name: David R. Brown

Date: 11/28/17

STATE OF Texas  
COUNTY OF Collin

BEFORE ME, the undersigned authority, on this 28<sup>th</sup> day of Nov., 2017, personally appeared David R. Brown who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to in the attached instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity on behalf of which the person(s) acted, executed the instrument of his/her/their own free will for the purposes and consideration therein expressed.

[SEAL]



Christie Paris  
Notary Public, State of Texas

(Signature): [Handwritten Signature]  
Name: Gary L. Howe

Date: 11/28/17

STATE OF Texas  
COUNTY OF Collin

BEFORE ME, the undersigned authority, on this 28th day of Nov, 2017, personally appeared Gary L. Howe who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to in the attached instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity on behalf of which the person(s) acted, executed the instrument of his/her/their own free will for the purposes and consideration therein expressed.

[SEAL] [Handwritten Signature]  
Notary Public/Commissioner/Officer

